

SAMPLE: Music

Title: Bonnie Tyler and Eclipses!

Background: This project contains two key ideas.

a) Music often describes events in the world around us. Sometimes, these events are also described by science. Bonnie Tyler's *Total Eclipse of the Heart* is an example of this music-science link.

b) Science frequently uses the metaphor to present a certain idea in a simplified way. The metaphor may look at the idea from a very different viewpoint than in a science textbook. But, creating a useful metaphor requires a clear understanding of the idea being explained.

Process:

1. Please print and read the song lyrics. One of several places to find the lyrics of this song is: <http://www.bonnietyler.com/lyrics/eclipse.html>
2. Use the lyrics to help you answer the following questions.

Questions:

1. The song's emotional content must be analysed first to help you create your eclipse metaphor.
 - a) What is her overall mental state?
 - b) Two key lyrics are: "Your love is like a shadow on me all of the time; I don't know what to do and I'm always in the dark." How do these lines tie in with the song title?
2. Sketch a solar eclipse, showing:
 - i) the source of the light
 - ii) what is blocking the light
 - iii) the area on which the shadow falls.
3.
 - a) Name the degrees of a solar eclipse.
 - b) What are the types of shadows associated with a solar eclipse?
 - c) Emotionally, the lady is in which type of shadow?
4. Now, sketch your visual metaphor of a solar eclipse as it relates to the emotional nature of song. Show:
 - i) the source of the "light"
 - ii) what is blocking the "light"
 - iii) the area on which the shadow falls.

5. List two other science- related song titles by Bonnie Tyler. Look at:
<http://www.bonnietyler.com/albums.html>